



Space Data®

## **Exhibit A**

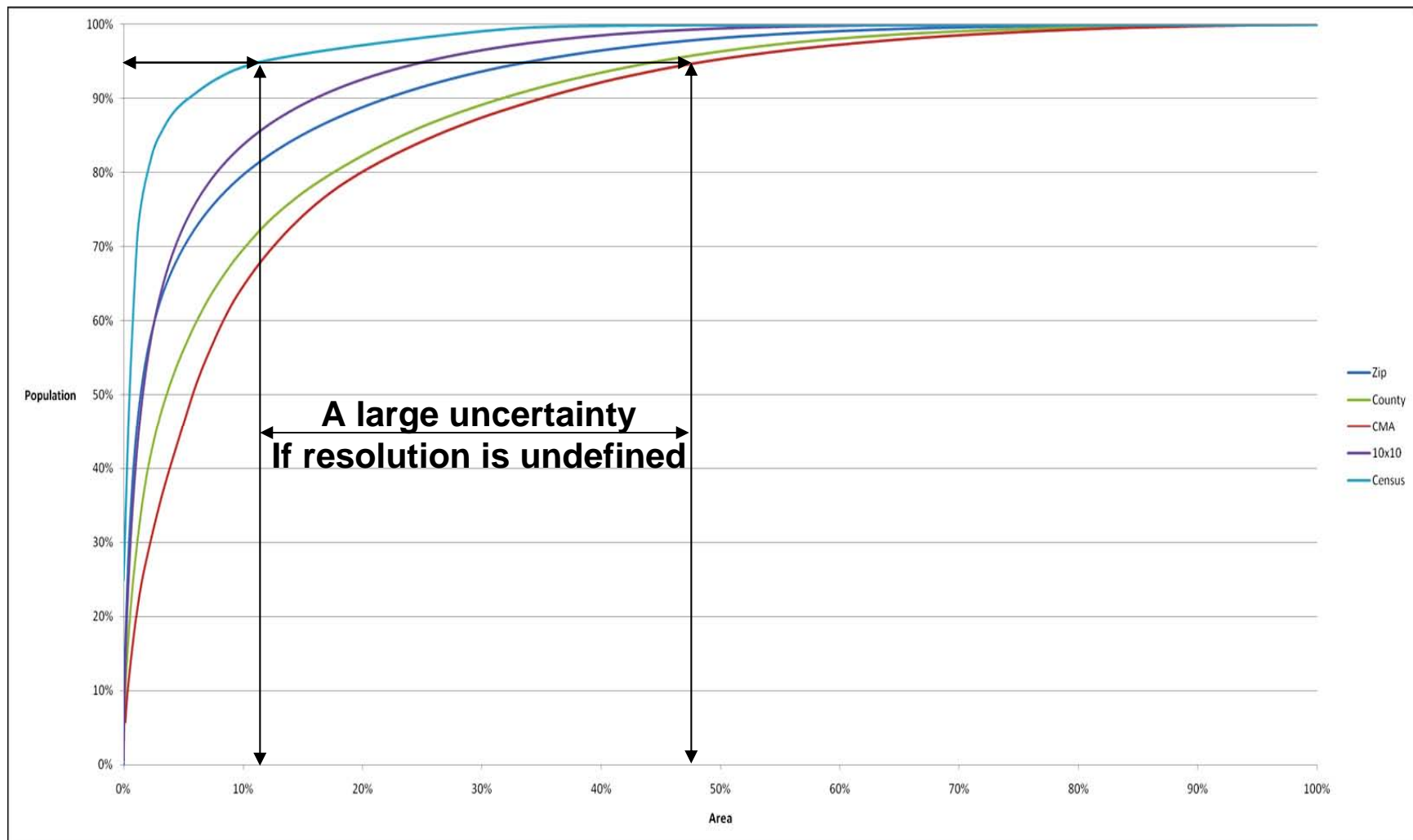
# **Resolution Must Be Defined**



Space Data®

Need to pick Resolution to  
Correlate %Pops with %Area

- 95% Pops equals 11% Area if Census Blocks are used or is 48% Area if CMAs are used



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### FCC or Census-based Resolutions (non-uniform: fine in East or urban, course in West or rural)

CMAAs (734)



**15.7% of Land**

Counties (3,141)



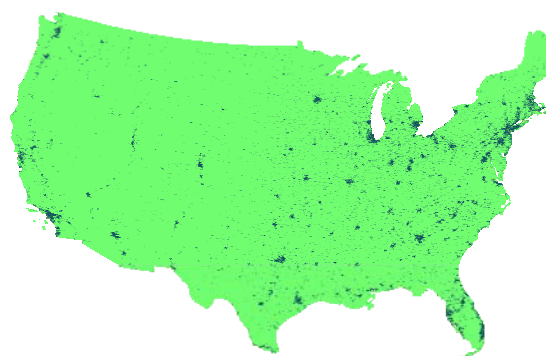
**13.2% of Land**

Zip Codes (33,178)



**7% of Land**

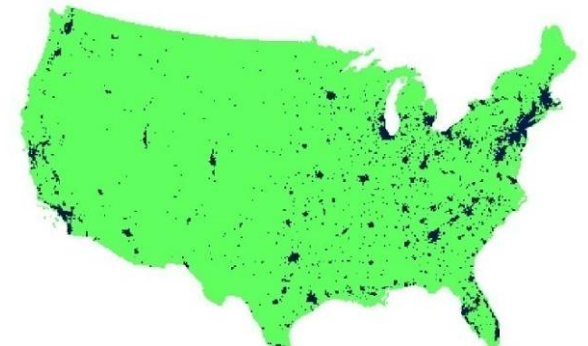
Census Blocks (8.5 M)



**1.4% of Land**

### Uniform, Tower-Sized Resolution

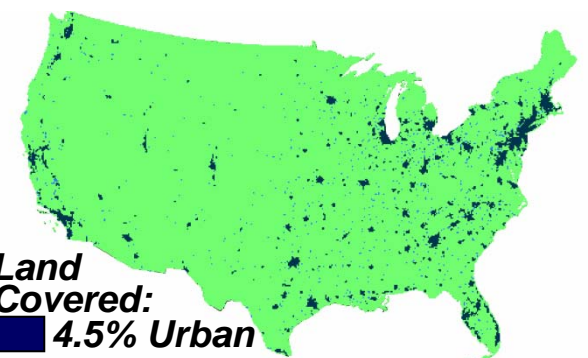
10x10 km squares (80,805)



**6% of Land**

### Proposed Urban License and Rural License

Urbanized Area+10 km



Land Covered:  
■ 4.5% Urban  
■ 1.0% Rural



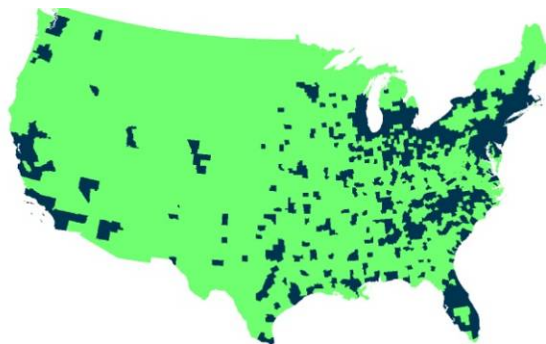
### FCC or Census-based Resolutions (non-uniform: fine in East or urban, coarse in West or rural)

CMAAs (734)



**19.9% of Land**

Counties (3,141)



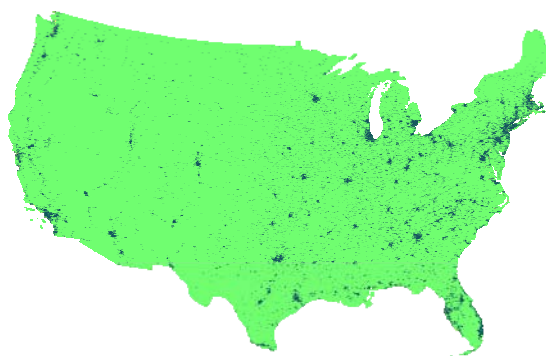
**17.7% of Land**

Zip Codes (33,178)



**10% of Land**

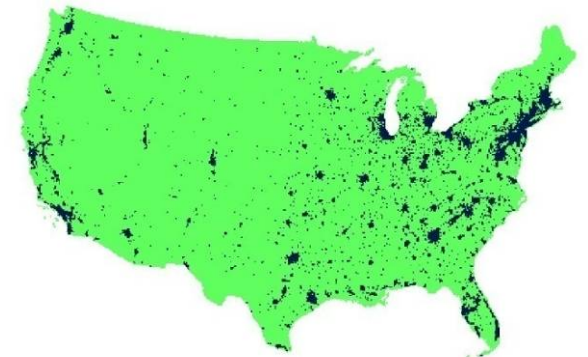
Census Blocks (8.5 M)



**2.0% of Land**

### Uniform, Tower-Sized Resolution

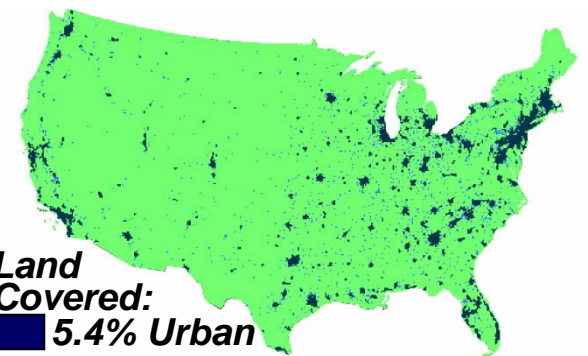
10x10 km squares (80,805)



**8% of Land**

### Proposed Urban License and Rural License

Urbanized Area+10 km



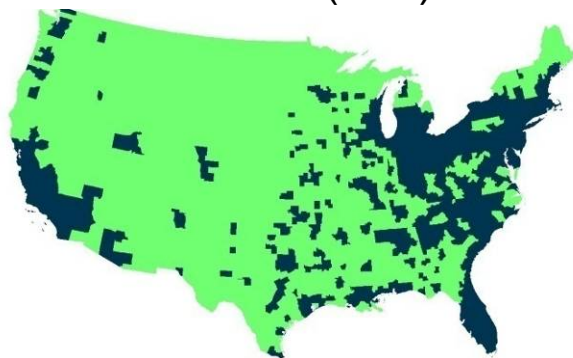
Land Covered:  
■ 5.4% Urban  
■ 2.0% Rural





### FCC or Census-based Resolutions (non-uniform: fine in East or urban, coarse in West or rural)

CMAAs (734)



**26% of Land**

Counties (3,141)



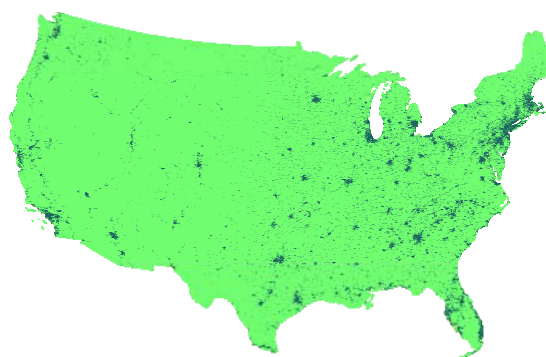
**23.3% of Land**

Zip Codes (33,178)



**15% of Land**

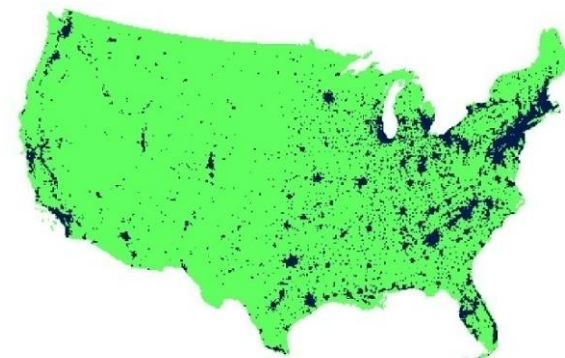
Census Blocks (8.5 M)



**3.0% of Land**

### Uniform, Tower-Sized Resolution

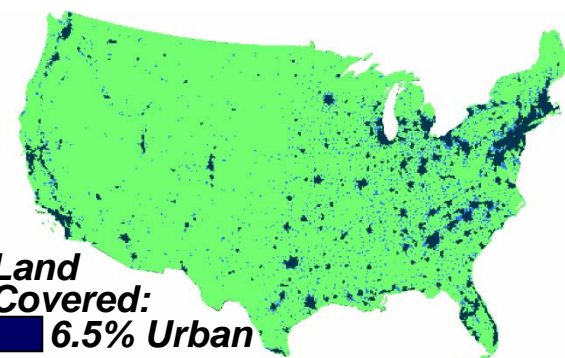
10x10 km squares (80,805)



**11% of Land**

### Proposed Urban License and Rural License

Urbanized Area+10 km

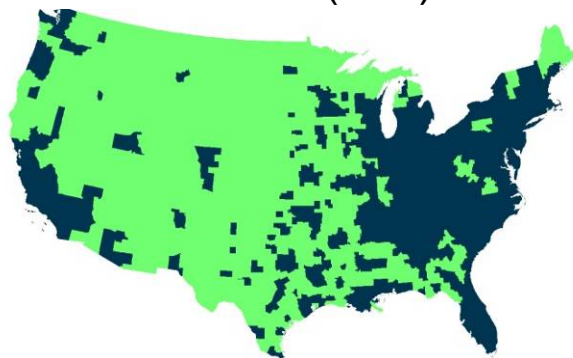


Land Covered:  
6.5% Urban  
4.0% Rural



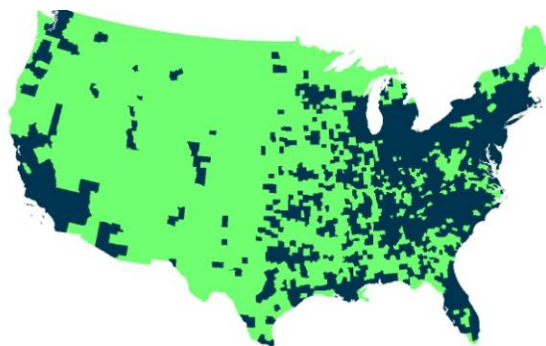
**FCC or Census-based Resolutions**  
(non-uniform: fine in East or urban, coarse in West or rural)

CMAAs (734)



**34.9% of Land**

Counties (3,141)



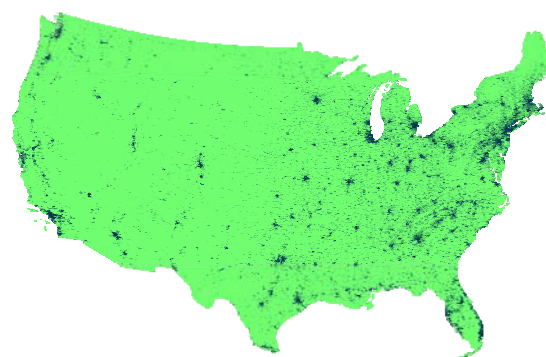
**31.6% of Land**

Zip Codes (33,178)



**22% of Land**

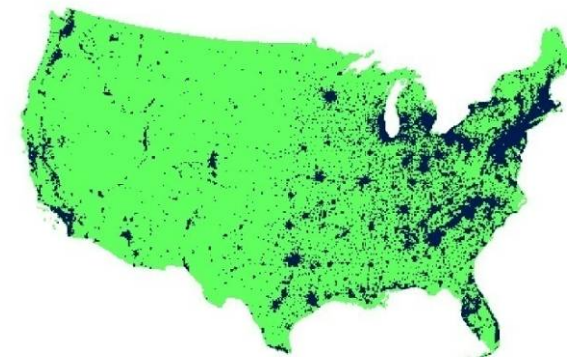
Census Blocks (8.5 M)



**5.4% of Land**

**Uniform, Tower-Sized Resolution**

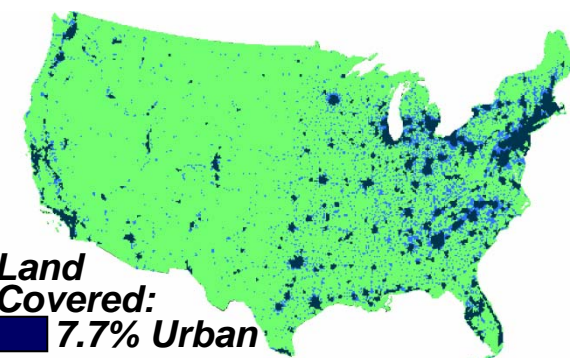
10x10 km squares (80,805)



**15% of Land**

**Proposed Urban License and Rural License**

Urbanized Area+10 km

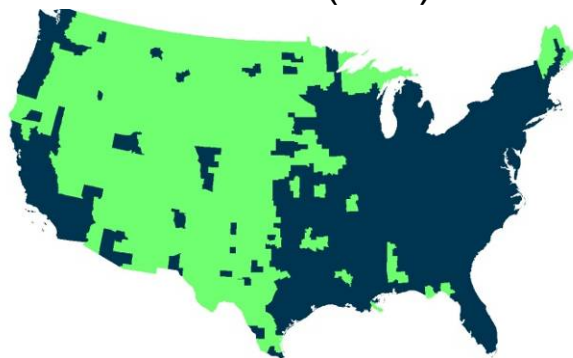


**Land Covered:**  
7.7% Urban  
7.6% Rural



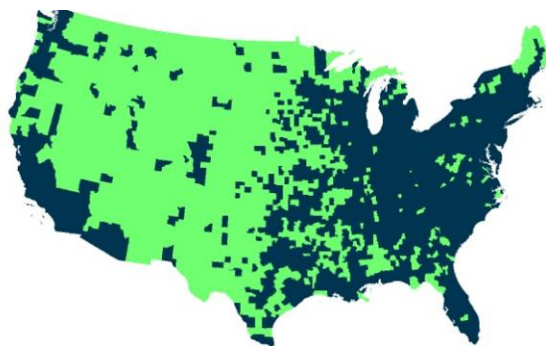
**FCC or Census-based Resolutions**  
(non-uniform: fine in East or urban, course in West or rural)

CMAAs (734)



**48.5% of Land**

Counties (3,141)



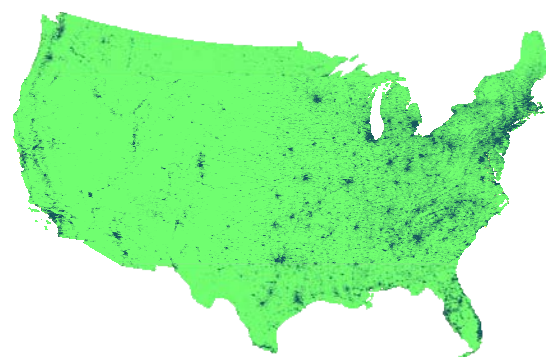
**44.5% of Land**

Zip Codes (33,178)



**34% of Land**

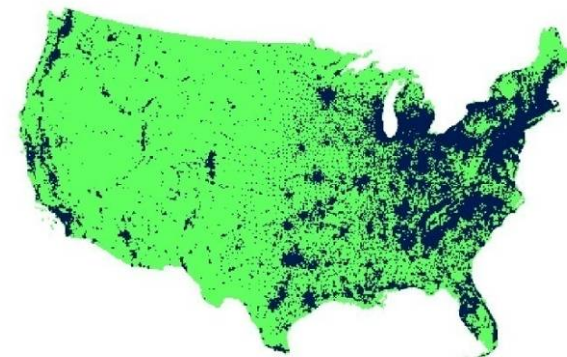
Census Blocks (8.5 M)



**11.5% of Land**

**Uniform, Tower-Sized Resolution**

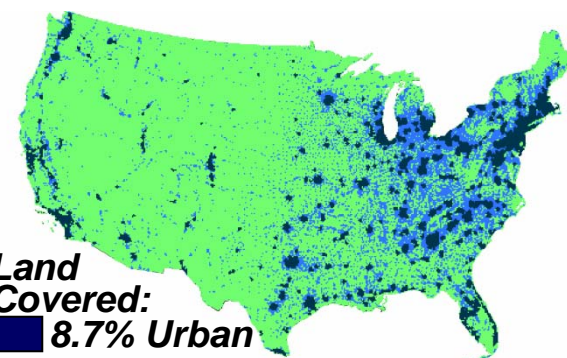
10x10 km squares (80,805)





**24% of Land**

**Proposed Urban License and Rural License**

Urbanized Area+10 km

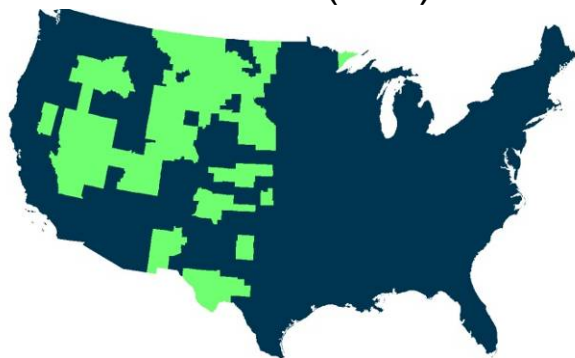


**Land Covered:**  
 **8.7% Urban**  
 **15.6% Rural**



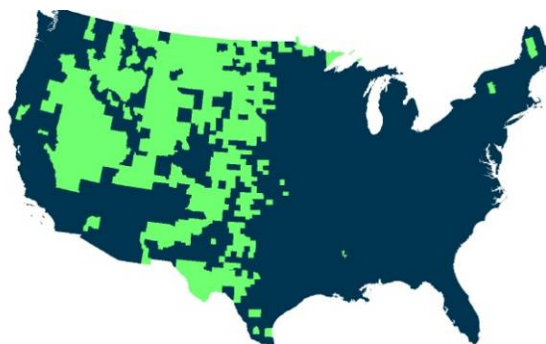
### FCC or Census-based Resolutions (non-uniform: fine in East or urban, course in West or rural)

CMAAs (734)



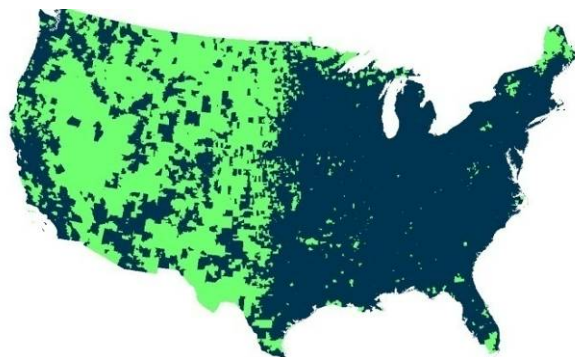
**78.7% of Land**

Counties (3,141)



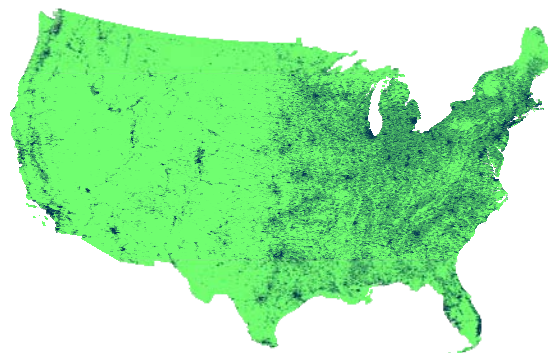
**72.5% of Land**

Zip Codes (33,178)



**62% of Land**

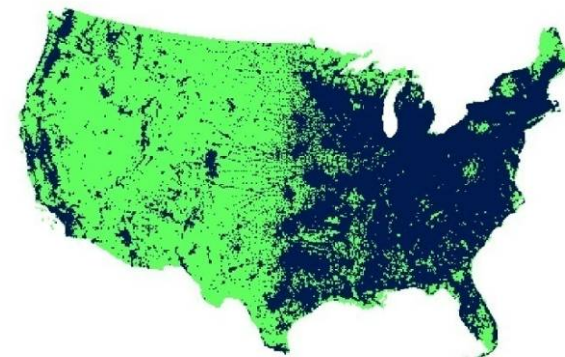
Census Blocks (8.5 M)



**31.2% of Land**

### Uniform, Tower-Sized Resolution

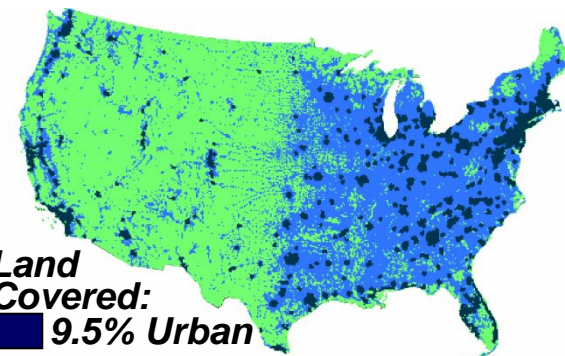
10x10 km squares (80,805)



**45% of Land**

### Proposed Urban License and Rural License

Urbanized Area+10 km



Land Covered:

9.5% Urban

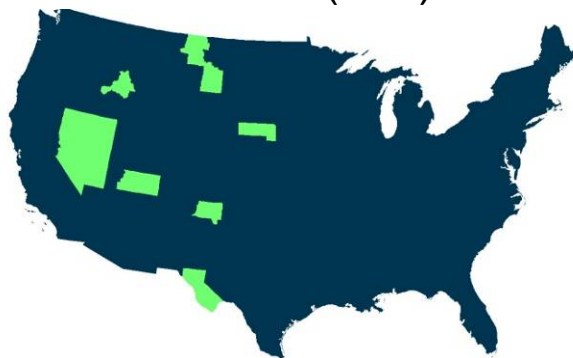
36.3% Rural





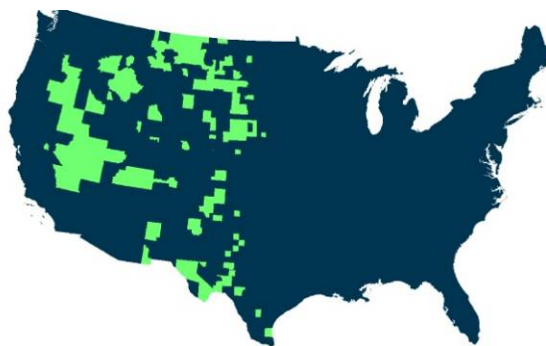
### FCC or Census-based Resolutions (non-uniform: fine in East or urban, course in West or rural)

CMAAs (734)



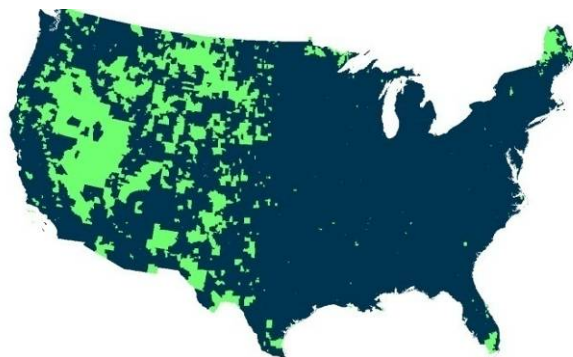
92.2% of Land

Counties (3,141)



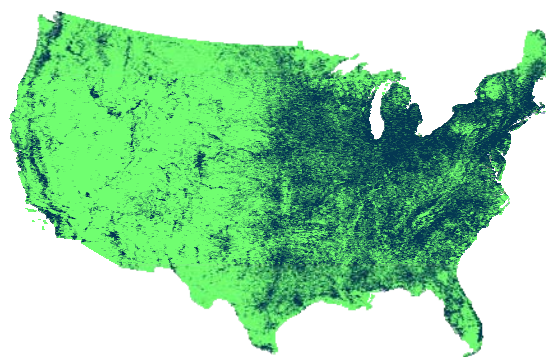
88.7% of Land

Zip Codes (33,178)



79% of Land

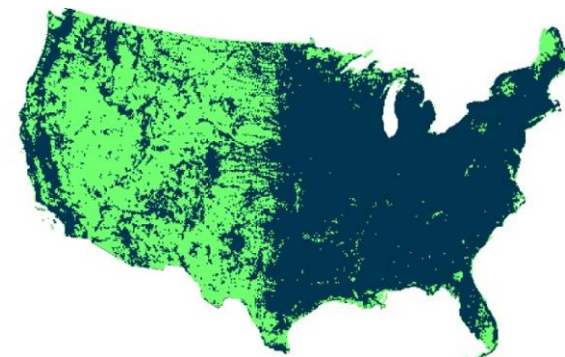
Census Blocks (8.5 M)



44.4% of Land

### Uniform, Tower-Sized Resolution

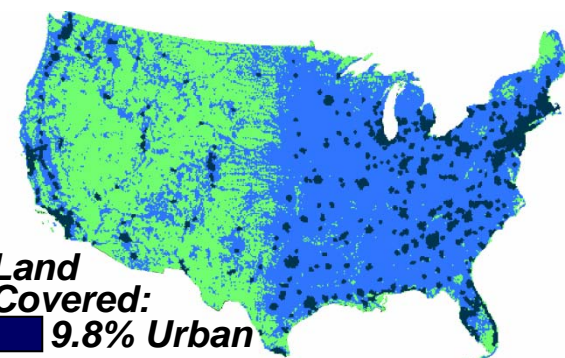
10x10 km squares (80,805)



70% of Land

### Proposed Urban License and Rural License

Urbanized Area+10 km



Land Covered:

9.8% Urban

52.6% Rural





## FCC or Census-based Resolutions (non-uniform: fine in East or urban, course in West or rural)

CMAAs (734)



100% of Land

Counties (3,141)



100% of Land

Zip Codes (33,178)



100% of Land

Census Blocks (8.5 M)



100% of Land

## Uniform, Tower-Sized Resolution

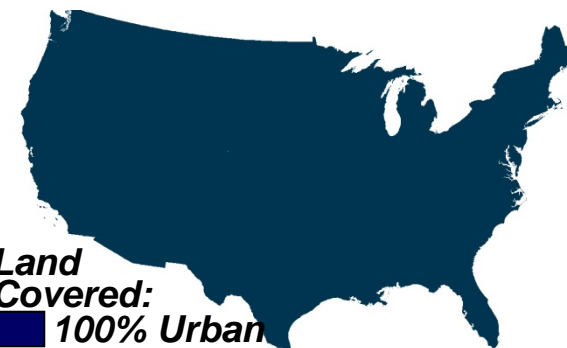
10x10 km squares (80,805)



100% of Land

## Proposed Urban License and Rural License

Urbanized Area+10 km



Land Covered:  
100% Urban  
100% Rural